

Name: _____

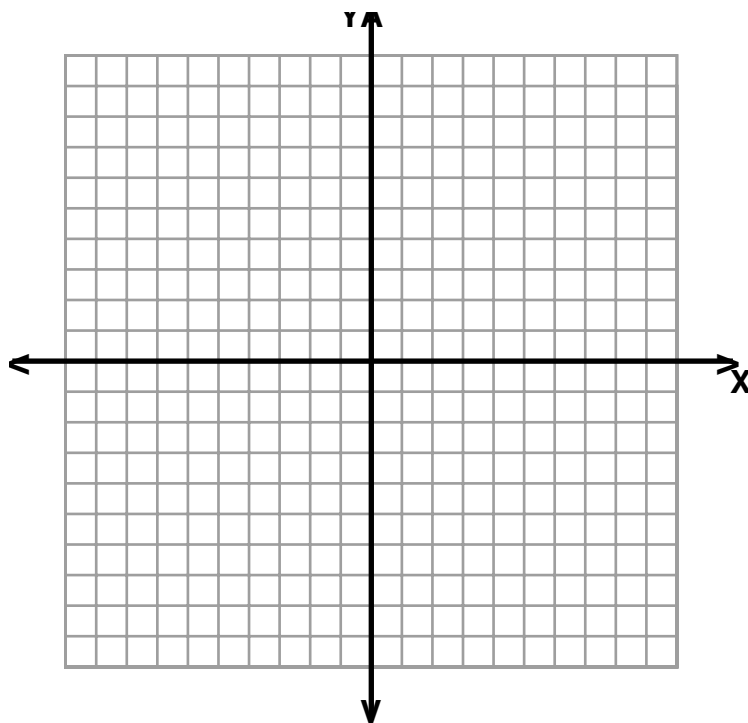
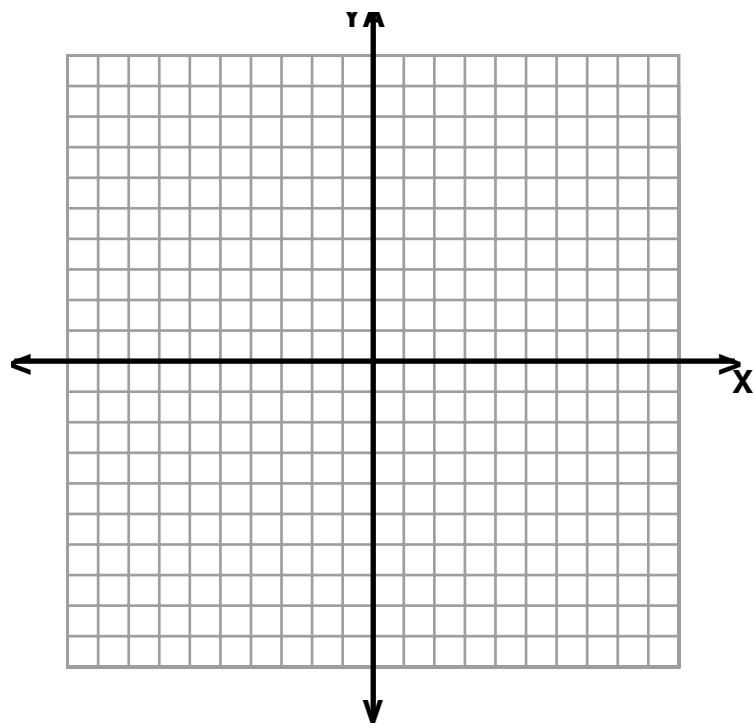
Date: _____

Period: _____

Unit 7 Practice Test

Slope

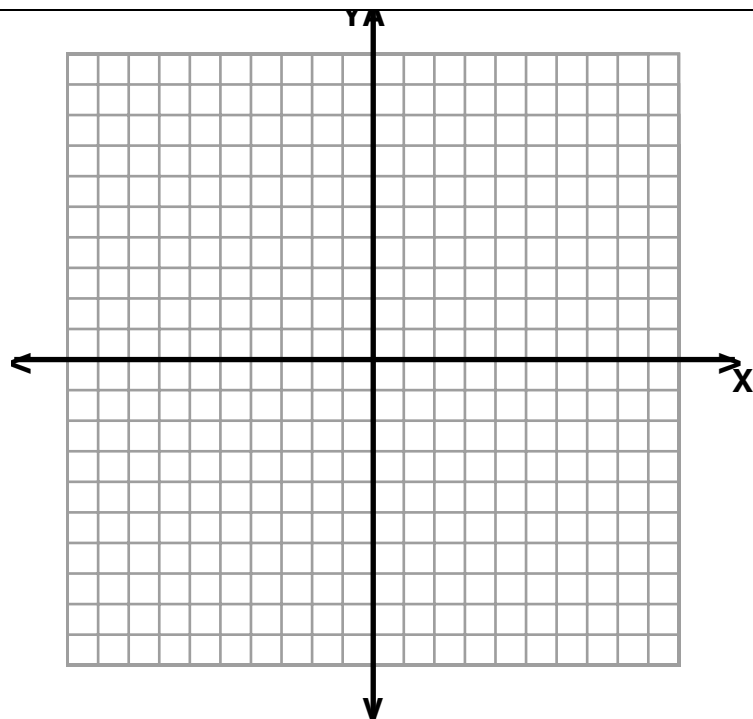
Find the slope given the following information.

 $(-2, 1)$ $(6, 7)$ $(-1, 4)$ $(3, -2)$ 

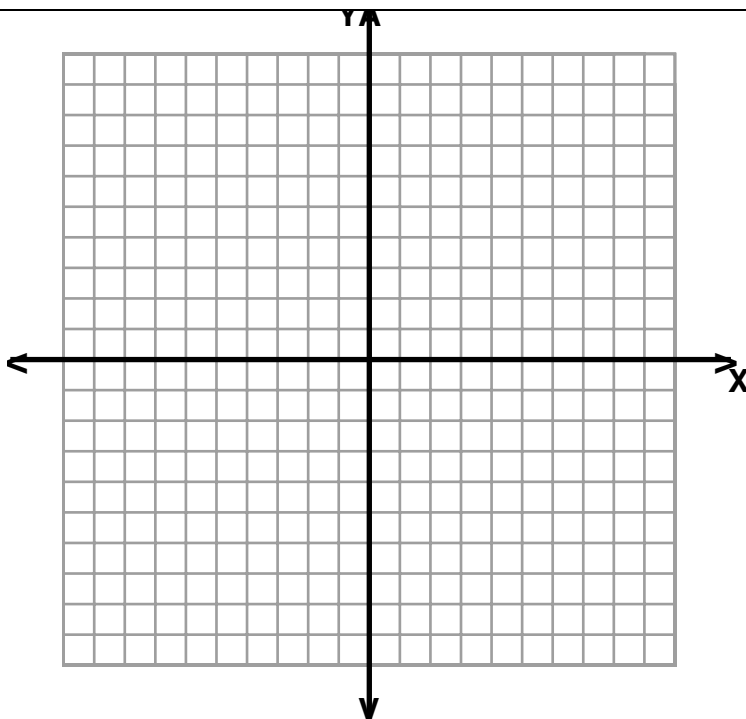
Slope-Intercept Form

Write an equation for each in slope-intercept form. Then, graph your equation.

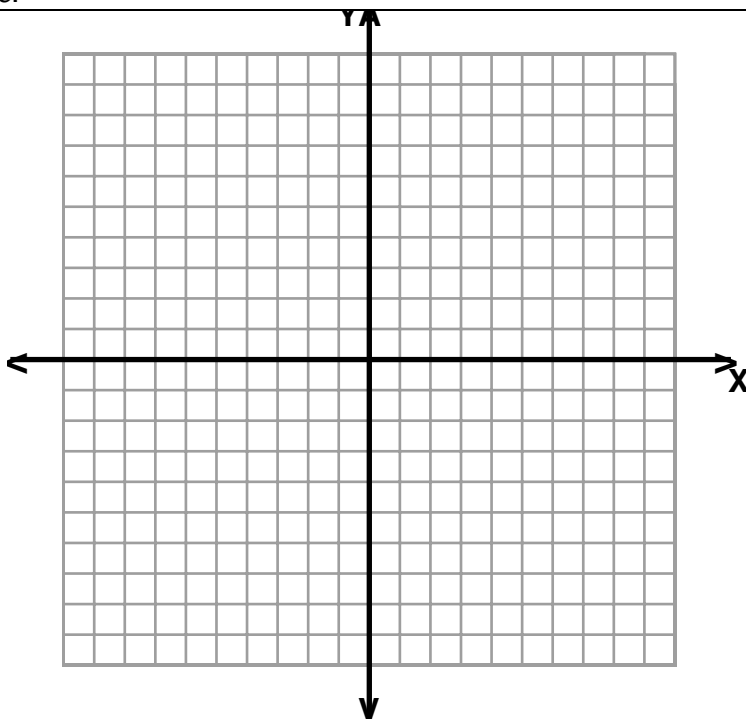
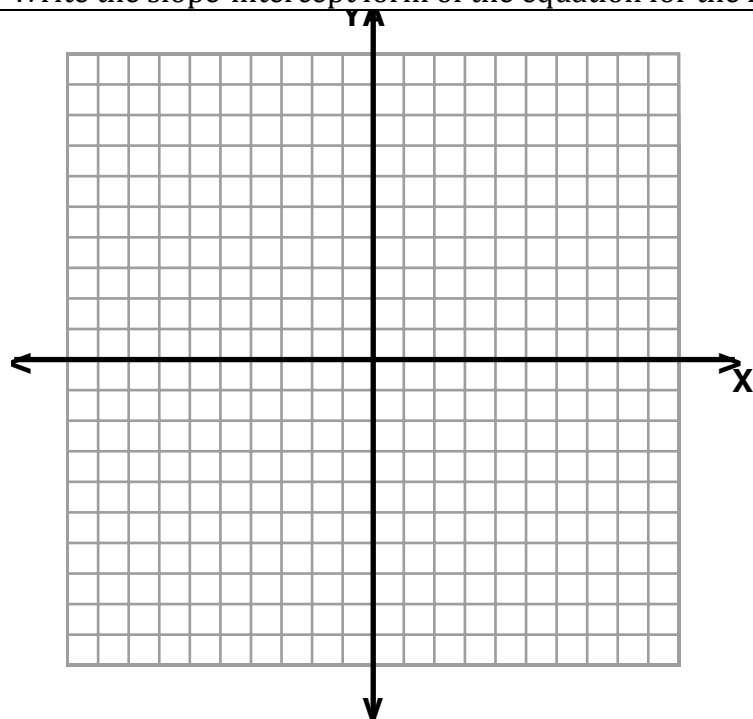
$$m = 3, b = -2$$

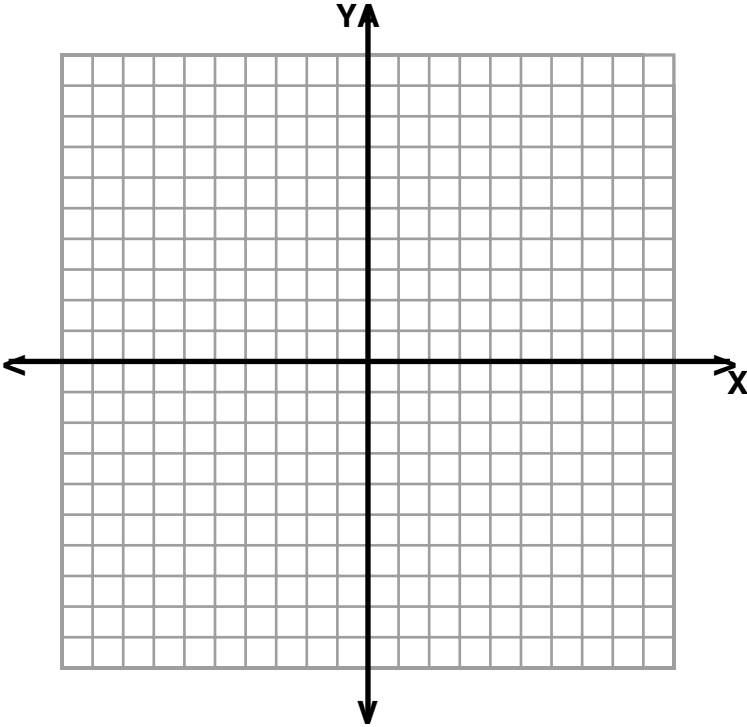
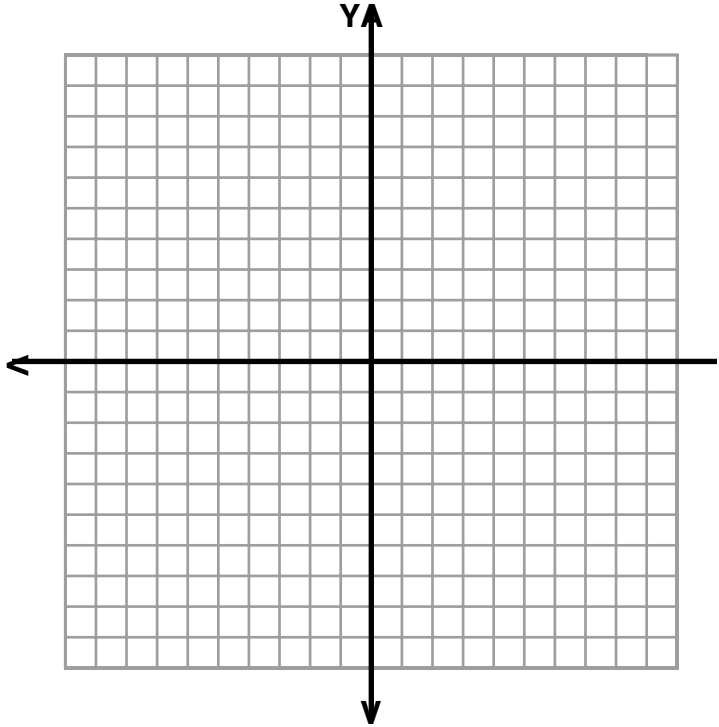


$$m = -(2/3), b = 1$$



Write the slope-intercept form of the equation for the line.



Standard Form	
Find the x - and y-intercepts. Then graph each equation using the intercepts.	
$2x - 4y = 8$	$4y + 5x = -20$
x-intercept:_____ y-intercept:_____	x-intercept:_____ y-intercept:_____
	

Write each equation in standard form using only integers.	
$y = 3x - 4$	$y = \frac{2}{5}x - 10$

Parallel and Perpendicular Lines	
Identify which lines are parallel.	
a. $y = \frac{5}{3}x$	b. $y = -3x + 2$
c. $y = 3x + 4$	d. $y = -3x - 1$

Identify which lines are perpendicular.

a. $y = -2x + 1$

b. $y = -x$

c. $y = x - 2$

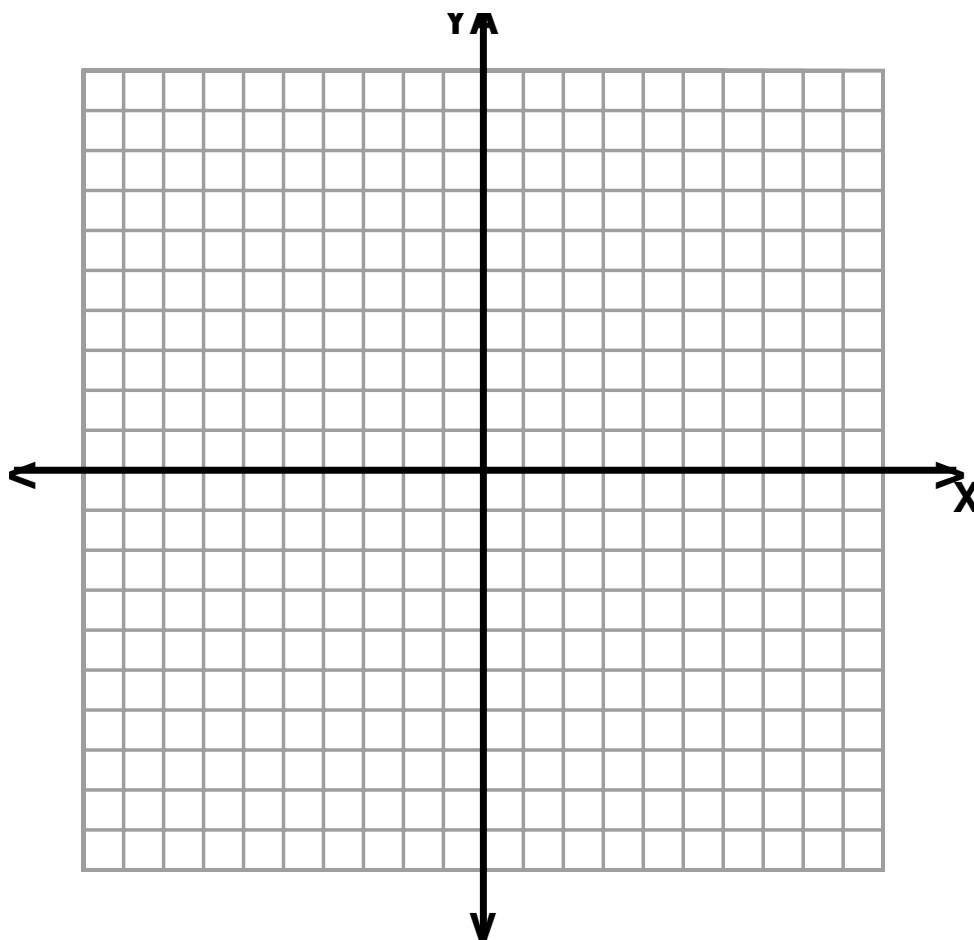
d. $y = -\frac{1}{2}x$

Given the equation $y = 3x + 1$. Answer the following questions. (2 points each)

Write an equation that is parallel to $y = 2x + 3$.

Write an equation that is perpendicular to $y = 2x + 3$.

Graph your two equations with $y = 2x + 3$. Be sure to label each line!



Graph each equation. Then describe the shape that has been made as a result. (3 points)

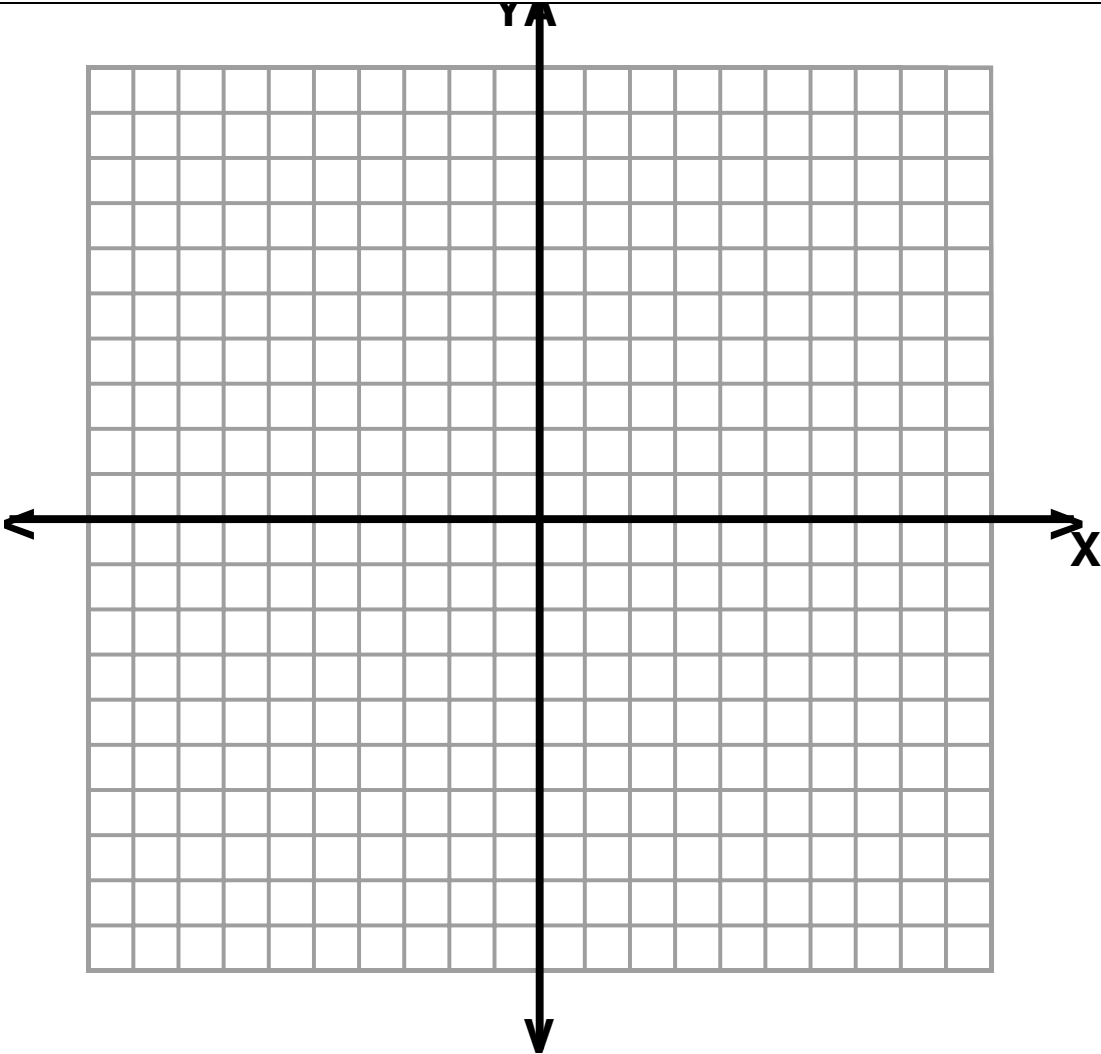
$x = -1$

$y = -5$

$y = -8$

$x = -8$

Shape:

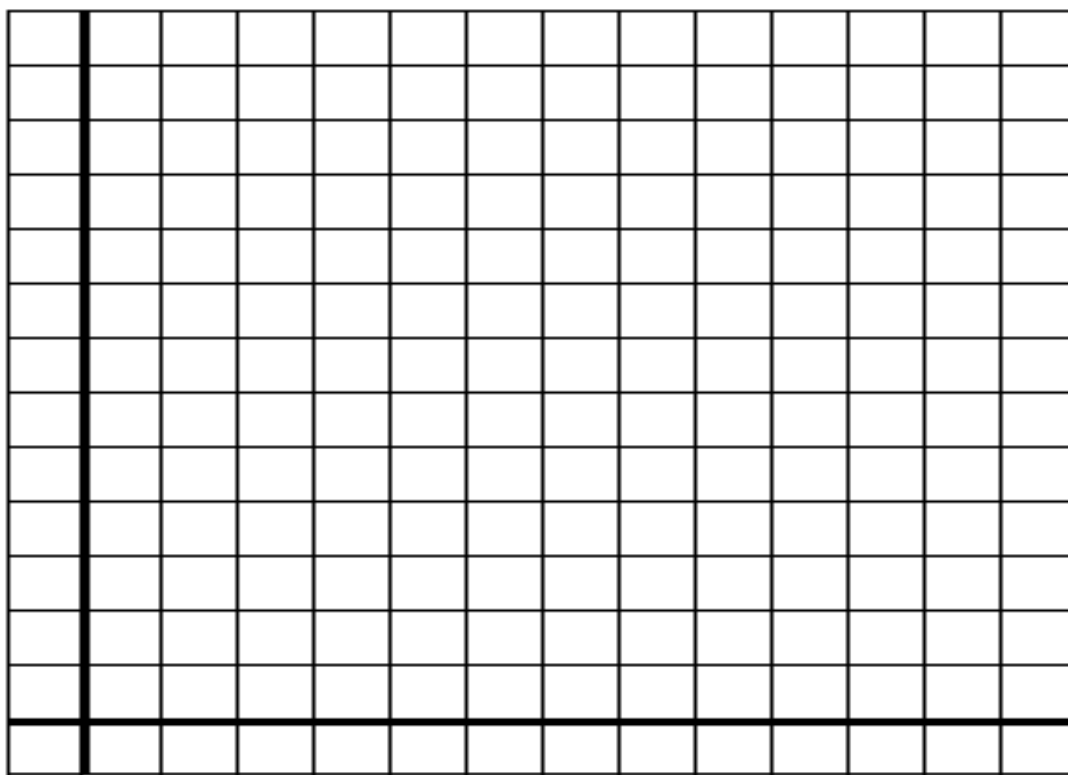


Word Problems

Situation: You decide that you are going to start babysitting this summer. You are going to charge families an initial charge of \$5. Then, you will charge \$8 per hour that they leave their child with you. Write a linear function to describe the situation. Then graph your function.

Let ____ = _____ Let ____ = _____

Equation:



Situation: Each notebook in a store costs \$5, and each eraser costs \$2. If you want to spend exactly \$20, write an equation in standard form modeling this situation.

a. Write an equation in standard form to represent this equation.

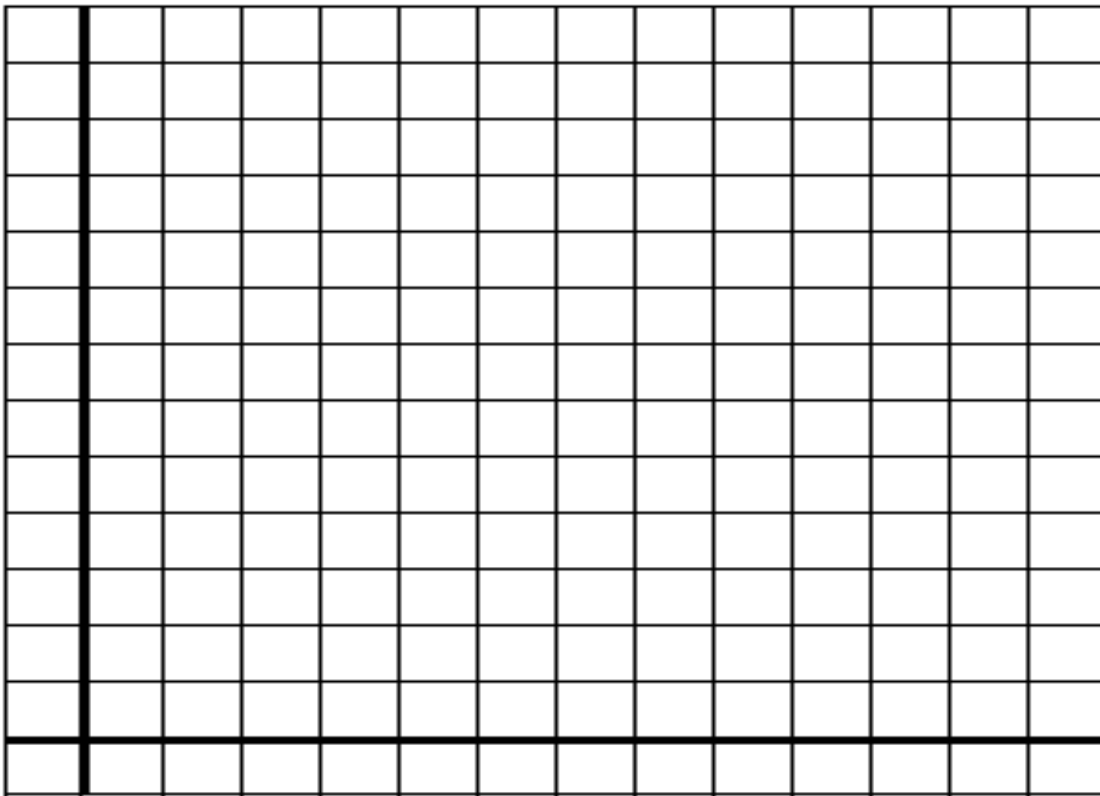
Equation: _____

b. Find the x and y-intercepts.

x-intercept: _____

y-intercept: _____

c. Graph the equation using the x and y-intercepts.



d. Use your graph to determine one possible combination of how many of each notebook and erasers you can buy.